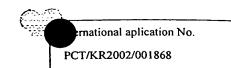
## **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference PCT00114	FOR FURTHER ACTION	SeeNotificatio Examination R	nofTransmittalofInternationalPreliminary teport (Form PCT/IPEA/416)		
International application No. PCT/KR2002/001868	International filing date(day/moo 07 OCTOBER 2002 (07		Priority date (day/month/year) 19 APRIL 2002 (19.04.2002)		
International Patent Classification (IPC) IPC7 H01L 21/3065	or national classification and IP	C	<del>.</del>		
PSK INC. et al					
This international preliminary e     and is transmitted to the applica	xamination report has been prepart according to Article 36.	ared by this Inter	rnational Preliminary Examining Authority		
This report is also accompamended and are the basis	panied by ANNEXES, i.e., sheets for this report and/or sheets conthe Administrative Instructions up	of the description	on, claims and/or drawings which have been ions made before this Authority (see Rule		
These annexes consist of a tota	l ofsheets.				
3. This report contains indications relating to the following items:  I X Basis of the report  II Priority  III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  IV Lack of unity of invention  V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement  VI Certain documents cited  VII Certain defects in the international application  VIII Certain observations on the international application					
Date of submission of the demand	Da	te of completion of	of this report		
11 NOVEMBER 2003 (11.11	2003)	23 JULY 20	004 (23.07.2004)		
Name and mailing address of the IPE  Korean Intellectual Proj 920 Dunsan-dong, Seo- Republic of Korea  Essemble No. 82-42-472-7140	perty Office gu, Daejeon 302-701,	KIM, Jun Hak	WILLIE		





I.	Basis	of the report	· · · · · · · · · · · · · · · · · · ·			
1.	With	regard to the elements of the international application:*				
	X	the international application as originally filed				
		the description:				
		pages		, as originally filed , filed with the demand		
		pages	, filed with the letter of	, med with the demand		
		the claims:	-	· , ———		
		pages		, as originally filed		
	-	pages	, as amended (together with any	statment) under Article 19		
		pages	, filed with the letter of	, med with the demand		
		the drawings:	<del></del>			
	Ш	pages		, as originally filed		
		nonec		, filed with the demand		
		pages	filed with the letter of			
	Ш	the sequence listing part of the description:		as originally filed		
		pages		, filed with the demand		
		pages	filed with the letter of			
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.  These elements were available or furnished to this Authority in the following language which is  the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).  the language of publication of the international application(under Rule 48.3(b)).  the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).					
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the interpreliminary examination was carried out on the basis of the sequence listing:						
		contained inthe international application in written form.				
		filed together with the international application in compu	ter readable form.			
		furnished subsequently to this Authority in written form.				
ŀ		furnished subsequently to this Authority in computer read				
		The statement that the subsequently furnished writter international applicationas as filed has been furinshed.	sequence listing does not go bey	ond the disc losure in the		
		The statement that the information recorded in comput been furnished.		ritten sequence listing has		
4.		The amendments have resulted in the cancellation of:				
		the description, pages				
			****			
5.		This report has been established as if (some of) the argo beyond the disclosure as filed, as indicated in the Sur		e they have been considered to		
	in th	lacement sheets which have been furnished to the receiving ( his opinion as "originally filed." and are not annexed to this 70.17).	Office in response to an invitation un s report since they do not contain	der Article 14 are referred to amendments (Rules 70.16		
•	* Any	replacement sheet containing such amendments must be ref	erred to under item I and annexed to	o this report.		



	N. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement
ł	

1					
1.	Statement	**** <sup>*</sup>	·		
	Novelty (N)	Claims	7-9		YES.
		Claims	1-6	<del></del>	_NO
1	Inventive step (IS)	Claims	7-9		YES .
	• • •	Claims	1-6		NO
.	- Industrial applicability (IA)	Claims	<b>1-9</b> -		YES.
		Claims			_NO
1					

2. Citations and explanations (Rule 70.7)

Citations

D1 JP10-135186(1998.5.28)

NOVELTY(N) and INVENTIVE STEP(IS)

1. D1 discloses the method of ash resist that the sample-placing surface of a sample stage is heated by means of a heating mechanism, and a sample carried onto the stage is raised to a prescribed height from the stage by raising lift pins. When the sample is raised, a hardened resist layer on the sample is removed by a generating plasma in a plasma chamber, while an ashing gas is supplied to the chamber.

However the prior art does not suggest or teach the additional step of over-ashing in which plasma is continuously generated even after almost all of the photoresists have been removed by plasma, and the step of silicon substrate being a pad-etched substrate. Therefore claims 7-9 which include this feature are considered novel and inventive.

The invention of claims 1-6 is a method of ash resist by a generating plasma in a plasma chamber which is an essential feature of the invention, and the feature that differentiate the invention of the prior art D1.

Therefore Claims 1-6 which do not include this feature are considered to lack novelty and inventive step.

## INDUSTRIAL APPLICABITY(IA)

The claims 1-9 is industrially applicable in allowing the asking method for a semiconductor manufacturing process.